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- Declarations under Rule 4.17:**
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AL, AU, BA, BR, CA, CN, CO, DZ, EC, EE, HR, ID, IL, IN, IS, JP, KR, LT, LV, MA, MK, MX, NO, NZ, PH, PL, SG, TN, UA, VN, YU, ZA, ZW, Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR)
  - as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
  - of inventorship (Rule 4.17(iv)) for US only
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(54) Title: NOVEL PHENANTHRIDINES

(57) Abstract: Compounds of a certain formula (1), in which R1, R2, R3, R31, R4, R5, R51, R6 and R7 have the meanings indicated in the description, are novel effective PDE4 inhibitors.

## INTERNATIONAL SEARCH REPORT

International	Classification No
PCT/EP 03/08967	

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC 7	C07D221/12	A61K31/47
A61P11/08		

According to International Patent Classification (IPC) or to both national classification and IPC

<b>B. FIELDS SEARCHED</b>
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Minimum documentation searched (classification system followed by classification symbols)

IPC 7	C07D	A61K	A61P
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data, BIOSIS

<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>
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Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 99 05113 A (BYK GULDEN LOMBERG CHEM FAB ;GUTTERER BEATE (DE)) 4 February 1999 (1999-02-04) cited in the application claim 1 -----	1-13
Y	WO 02 06238 A (BYK GULDEN LOMBERG CHEM FAB ;GUTTERER BEATE (DE)) 24 January 2002 (2002-01-24) cited in the application claim 1 -----	1-13
Y	WO 97 28131 A (BYK GULDEN LOMBERG CHEM FAB ;GUTTERER BEATE (DE)) 7 August 1997 (1997-08-07) cited in the application claim 1 ----- -/-	1-13

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search	Date of mailing of the international search report
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31 October 2003	10/02/2004
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentstaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016	Authorized officer
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International	cation No
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A	EP 0 490 823 A (SANDOZ LTD ;SANDOZ AG (DE); SANDOZ AG (AT)) 17 June 1992 (1992-06-17) claim 1 -----	1-13
P,Y	WO 02 066476 A (BYK GULDEN LOMBERG CHEM FAB ;FLOCKERZI DIETER (DE)) 29 August 2002 (2002-08-29) claim 1 -----	1-13

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